

Middle School Number Sense Exam 013, 8/22/2017

- (1) $9\frac{1}{2} \times 101 =$ _____ (decimal)
- (2) $\frac{1}{5}$ of 17 is _____
- (3) $25 \times 64 =$ _____
- (4) $\frac{13}{20} =$ _____ %
- (5) $477 + 845 =$ _____
- (6) $5265 \div 13 =$ _____
- (7) $3 + 3^2 =$ _____
- (8) $6\frac{1}{4} =$ _____ %
- (9) $7 + 17 + 27 =$ _____
- *(10) $33 + 421 + 264 + 12 =$ _____
- (11) $16^2 =$ _____
- (12) $48 \div 3 \div 8 =$ _____
- (13) $35 + 13 \times 5 - 3 =$ _____
- (14) $111 \times 513 =$ _____
- (15) $9 \times 11\frac{7}{9} =$ _____
- (16) $\frac{6}{125} =$ _____ (decimal)
- (17) 240 centigrams + 32 milligrams = _____ mgs
- (18) Which is smaller $\frac{1}{8}$ or $.\overline{13}$? _____
- (19) $25 \times 8 \times 14 =$ _____
- *(20) $208 \times 507 =$ _____
- (21) $4321 \div 9$ has a remainder of _____
- (22) .065 Hectograms = _____ centigrams
- (23) 2.6 meters - 112 cm = _____ cm
- (24) The GCF of 18 and 42 is _____
- (25) $75^2 =$ _____
- (26) $12\frac{1}{2} \times 32 =$ _____
- (27) $1\frac{7}{8} + 2\frac{1}{2} =$ _____ (mixed number)
- (28) If $a = 24, b = \frac{1}{6}$, then $\sqrt{\frac{a}{b}} =$ _____
- (29) $52 \times 75 =$ _____
- *(30) $2834 \div 31 =$ _____
- (31) $1 + 3 + 5 + \dots + 47 + 49 =$ _____
- (32) $12_{10} =$ _____ ₄
- (33) $14_6 =$ _____ ₁₀
- (34) $112 \times 105 =$ _____
- (35) The area of a parallelogram with base 42 cm and height $2\frac{1}{6}$ cm is _____ sq. cm.
- (36) 6 is _____% of 48
- (37) $115 \times 106 =$ _____
- (38) The supplement of a 23° angle is _____ $^\circ$
- (39) $109 \times 110 =$ _____
- *(40) $16 \times 18 \times 20 =$ _____
- (41) $9^2 + 27^2 =$ _____
- (42) 105 has _____ unique prime factors
- (43) If $\sqrt{32}$ simplifies to $a\sqrt{b}$, then $a =$ _____
- (44) $17 \times \frac{17}{19} =$ _____ (mixed number)
- (45) A tetrahedron has _____ edges
- (46) 165 has _____ unique prime factors

- (47) 160 acres = _____ sq. miles
- (48) 80 acres = _____ sq. miles
- (49) $\{r, A, d, i, c, a, l\}$ has _____ improper subsets
- *(50) $47 \times 142857 =$ _____
- (51) The number of diagonals that can be drawn from one vertex of a heptagon is _____
- (52) $204_6 =$ _____ $_{10}$
- (53) The product of the GCF and the LCM of 17 and 22 is _____
- (54) If the circumference of a circle with area 196π sq. in. is $a\pi$ in., then $a =$ _____
- (55) The largest palindrome smaller than 200 is _____
- (56) The fourth triangular number is _____
- (57) 59° Fahrenheit = _____ $^\circ$ Celsius
- (58) The abscissa of the x -intercept of the line $9y - 2x = 4$ is _____
- (59) If $\sqrt{98}$ simplifies as $a\sqrt{b}$, then $a =$ _____
- *(60) $28 \times 30 \times 32 =$ _____
- (61) 30 miles per hour = _____ feet per second
- (62) The distance between $(-17, 7)$ and $(13, 47)$ is _____
- (63) 44 feet per second = _____ miles per hour
- (64) $5^8 \times 2^6 =$ _____
- (65) $998 \times 993 =$ _____
- (66) $8! \div 6! =$ _____
- (67) If $f(x) = x^2 + 4x$, then $f\left(\frac{1}{2}\right) =$ _____
- (68) The abscissa of $(6, -2)$ after it is dilated with a scale factor of $\frac{1}{3}$ is _____
- (69) If $6\sqrt{x-3} = 42$, then $x =$ _____
- *(70) $5\frac{4}{7} \times 2\frac{11}{15} \times 9\frac{2}{13} =$ _____
- (71) $0.13_8 =$ _____ $_{10}$
- (72) The acute angle formed by the hands of a clock at 4:12 is _____ $^\circ$
- (73) $43_6 + 33_6 =$ _____ $_6$
- (74) $96 \times 16\frac{2}{3} =$ _____
- (75) $\sqrt[3]{27^3} =$ _____
- (76) $65^2 + 44^2 =$ _____
- (77) $i^{68} =$ _____
- (78) $2 \times 4 \times 6 \times 8 \times 0 =$ _____
- (79) $2^4 \times 5^6 =$ _____
- *(80) $1365 \div 3.8 =$ _____